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CLAIMS

What is claimed is:

- A diploid watermelon plant for pollinating triploid plants comprising, at maturity, heavily branching lacy vines with small leaves having a surface area approximately in the range of 25-40 cm² and characterized by deep, non-overlapping leaf lobes, said plant bearing small, brittle fruit.
- 2) The watermelon plant according to claim 1, wherein said fruit weighs approximately in the range of 2 to 7 lbs
 - The watermelon plant according to claim 1, wherein said said fruit breaks under a pressure approximately in the range of 7-11lbs/in².
 - 4) Pollen of the plant of claim 1.
 - 5) An ovule of the plant of claim 1.
- 15 6) Fruit of the plant of claim 1.
 - 7) Seed of the plant of claim 1.
 - Progeny of plants as claimed in claim 1 obtained in generative or vegetative manner, wherein said progeny retain the characteristics set forth in claim 1.
 - 9) A diploid watermelon plant for pollinating triploid plants producing seedless watermelon fruit comprising the characteristics of:
 - a) smaller fruit and leaf size compared to the watermelon variety Sangria™,
 - b) deep, non-overlapping lobes, and
 - c) wherein said fruit rind is more brittle than the rind of the variety Sangria™.
- The watermelon plant according to claim 9, wherein said fruit weighs approximately in the range of 2 to 7 lbs
 - 11) The watermelon plant according to claim 9, wherein said said fruit breaks under a pressure approximately in the range of 7-11lbs/in².
 - 12) The watermelon plant according to claim 9, wherein said leaves have a surface area approximately in the range of 25-40 cm².
- 30 13) Pollen of the plant of claim 9
 - 14) An ovule of the plant of claim 9

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- 15) Fruit of the plant of claim 9.
- 16) Seed of the plant of claim 9.
- 17) Progeny of plants as claimed in claim 9 obtained in generative or vegetative manner, wherein said progeny retain the characteristics set forth in claim 9.
- 5 18) A method for producing triploid, seedless watermelon fruit comprising the steps of:
 - a) planting a field with rows of evenly spaced triploid watermelon plants;
 - b) inter-planting diploid pollenizer watermelon plant within said rows of evenly spaced triploid watermelon plants after every 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, or 10th triploid plants;
- 10 c) harvesting said triploid, seedless watermelon fruit.
 - 19) A method for producing triploid, seedless watermelon fruit comprising the steps of:
 - a) planting a field with rows of triploid watermelon plants;
 - b) planting said field with rows of diploid watermelon plants, wherein the rows of diploid watermelon plants are approximately one-third to one-half the width of the triploid rows.
 - 20) A method for producing triploid, seedless watermelon fruit according to claim 19, wherein the diploid watermelon plants are approximately one-half to two-thirds the width of the triploid rows.
 - A method for producing triploid, seedless watermelon fruit according to claim 19, further comprising the step of planting said rows of diploid watermelon plants after every two triploid rows.
 - 22) A method for producing triploid, seedless watermelon fruit according to claim 19, further comprising the step of planting said rows of diploid watermelon plants after every three triploid rows.
- 25 23) A method for producing triploid, seedless watermelon fruit according to claim 19, further comprising the step of planting said rows of diploid watermelon plants after every four triploid rows.
 - A method of increasing the yield of triploid, seedless watermelon plants comprising the steps of:
- a) developing a pollenizer watermelon plant for pollenizing said triploid, seedless watermelon plants by:

- i) reducing fruit load of said pollenizer watermelon plant;
- ii) decreasing the size of the leaves of said pollenizer watermelon plant;
- iii) increasing the flowering duration of said pollenizer watermelon plant;
- b) planting said pollenizer watermelon plant in a field of triploid watermelon plants; and
- 5 c) harvesting said triploid watermelon.
 - A method of increasing the yield of seedless watermelon plants according to claim 24, wherein planting of said pollenizer watermelon plant is at a ratio of approximately equal to or less than 1 pollenizer watermelon plant to 2 triploid, seedless watermelon plants.
- A method of increasing the yield of seedless watermelon plants according to claim 24, wherein planting of said pollenizer watermelon plant is at a ratio of approximately equal to or less than 1 pollenizer watermelon plant to 4 triploid, seedless watermelon plants.
- A method of increasing the yield of seedless watermelon plants according to claim 24, wherein said pollenizer watermelon is not harvested for human consumption.